38/85/82 18:06 Pg: 2/3 8/85/82 16:26 Pg: 2

JUN 07 2002

TECH CENTER 1600/2900 6/10/6

FILE NO. A33083-PCT-USA / 072667.0127 PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant

Cole et all

Serial No.

09/508,710

Examiner.

David H. Kruse

Filed

July 10, 2000

Group Art Unit:

1638

For

NEW PLANT GENES

DECLARATION UNDER 37 C.F.R. § 1.131

Ian Cummins declares as follows:

- 1. I am an inventor of the above-identified patent application.
- 2. Prior to August 11, 1997, the invention described and claimed in the subject application was completed as evidenced by the following.
- 3. Prior to August 11, 1997, Ian Cummins isolated RNA encoding the glutathione transferase subunits of the present invention. A copy of the relevant lab notebook pages in which Ian Cummins described this work are attached hereto as Exhibit A. The dates shown on these pages are redacted.
- 4. Prior to August 11, 1997, Ian Cummins synthesized cDNA library from the isolated RNA described in Exhibit A and purified the cDNA library. A copy of the relevant notebook pages in which Ian Cummins described this work are attached hereto as Exhibit B. The dates of Exhibit B are reducted.
- 5. Prior to August 11, 1997, Ian Cummins sub-cloned the cDNA library into expression vectors and transformed E. coli cells with the expression vectors. A copy of the

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relevant notebook pages in which Ian Cummins described this work are attached hereto as Exhibit C. The dates of Exhibit C are redacted.

- 6. Prior to August 11, 1997, Ian Cummins checked the cDNA library expression vectors for the presence of glutathione transferase subunits by binding to a glutathione resin and by western blot analysis. A copy of the relevant notebook pages in which Ian Cummins described this work are attached hereto as Exhibit D. The dates of Exhibit D are redacted.
- 7. Prior to August 11, 1997, Ian Cummins showed by western blot analysis that certain cDNA's expressed glutathione transferase subunits. A copy of the relevant notebook pages in which Ian Cummins described this work are attached hereto as Exhibit E. The dates of Exhibit E are redacted.
- 8. Prior to August 11, 1997, Ian Cummins sequenced the cDNA encoding for glutathione transferase subunits and showed that they were novel DNA sequences encoding novel glutathione transferase subunits. A copy of the relevant notebook pages in which lan Cummins described this work are attached hereto as Exhibit F. The dates of Exhibit F are redacted.

26

Ian Cummins

Fax émis par : 33 4 72 85 28 43 Fax reçu de : 81913747483

May 30th 2002

NY02:388039.1

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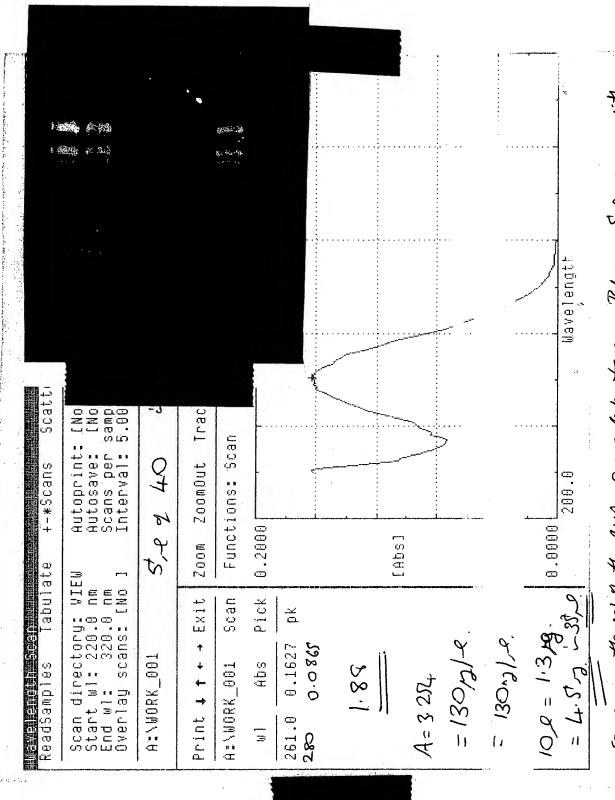
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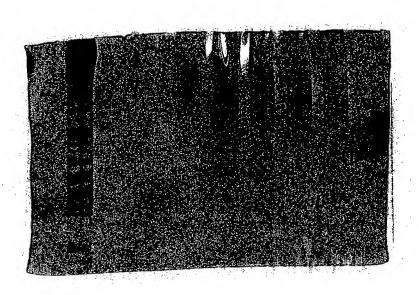
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	transl CDNA are paul the Explanel 5-500 alumn. 6 photos the = 60, e.
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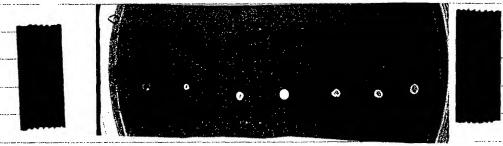
1.16g Nace, 400mg Mg504, 740 10-11-1 m15647.5) 1.2/2 m15 1-1 2% Geach 20mg Geloka.

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0.51 / 2 10 x Butter

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For - 150 7% DM/D

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and the second of the second
AN 3-e LB x i.c. 2/2 L 3300 c.m. shehig
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for odl

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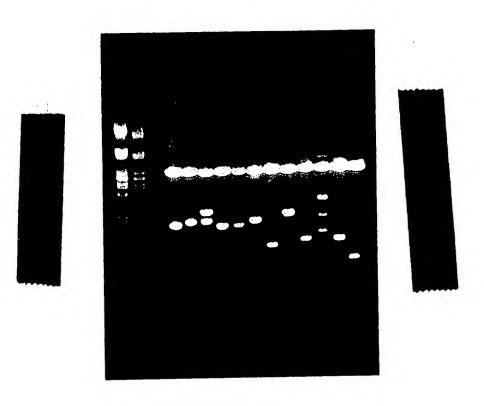
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Alor - gel puly 24 kD bal a 2 0.75-m 15%. To Trans

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gels.



And the second s



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VIZ. DNA -> -20°C for Poler squ	. j

Check plants 1 x 2 prior to sequenj.	
1e → 10e. ~~ 1,2,4e ~2e.	
2 < 6 e \lst e 100 y/e	
2-0 - 12.5 - 3 bt	
$\frac{200 \text{ ng } \lambda \text{ lit} \rightarrow 12.5 \text{ ng } 3 \text{ kb}}{600 \text{ ng } \lambda \text{ lit} \rightarrow 37 \text{ ng } 3 \text{ kb}}$	
Soring DNA 5'Le of 100mg/ple per marchion.	
1 e to = 37g. in. 370g/ne 1 stack	
Take 1:3, e q speck -> 5'e. Do fil an 1+2	
4 00 July restiction maps & Expression States.	
1.3 2 DNA + 3.7 e tho	
Rasul and for plans 12 & 3. (A & B for both)	
1 et examil physis + 200 e sockalls -> 370 15 min	
Title on direct greens (Angles) & you O/N.	
50/50.	
Male 200-1 LB Ago. 100-1 LB (20 x 5-1)	
29 Nace 19 Nace 1e 5N	
29 Typhe 19 Typ spet	
19 46 0.53 46	
29 Ayar C p# 7.0 v and come.	
TO TO	

Ra #9 8.2.96 on 2 x 15 1/2. 5 x VJ zulo 176 e + 176 e pelo get pelon to 2 for 10 mm, 45 %. rether, 10 % INC Stain BHOL 30 min Excie tolo -> 500 e Porge telle - longist -> JAC O/N. Chus 1,2,4,5,6,8,9,10,11,13,14 x16 inhal. Inc. Shi LB Are/ Mar with look of perio celos. am to OD 0.6-1 & wi lost to lam am 34. - In feet - goon for 2's b, shee 00 = 0.2 So we IPTE of gow for an astime 6 h. Relet a hope will they Earl pri - 40,0 131 201 40h- -80°C. Peper spals of GST closes for peps. and for WIZ DNA graps. Also heep Int of calver & talks for control o.f. inhal alles 700 e ach + 300 e 50% ague 320 + 150.



Signal G:158 A:196 T:43 C:69 DT4%Ac(A Set-AnyPrimer) Points 1160 to 8000 Base 1: 1160 Instrument 901356 JB.

when when I the whole he had been the the second and the second the second the second than the second the seco more and the sound of the sound all as a lateral blander little and home from the best of the lateral described by the little best of the company of the lateral by the later ICTIGACTICIGGTGAGCCGT TUGGGAGCGGTGGGGATCCCGCTGGCCGAGAAGGCCTGCCCTACGAGT ACGGGAGGAGGACTGATGCCGGGAAGACGGACCGCGCCCCCACCCGGTGCATAANAAGATCCCGGTGCTCCTCCTC 290 300 Spacing: 9.

NA CTG CGG CTC CCGC CTC TGGAAANCT CAAG G G CG AACCGC ANG CGC CANG CGCCCC GCCCA A ATGCT GG A CA TCCT CAANACCCT CCACNS CNXXXC TCGGG GA CAAAC CCTTTCT T CGG CGG TGAA

T CGGG TT CGT CCAAON CC GCCTTIC NCCGCCCTT C ACCGNCT GCTTTCCT CAT CTA CNA AA AGT ATT GGNAAT T CCCCCTT G CCGGAAGT GNCNCT TRUGGC CAAN CCCCTNCC GCAAACCNSAN,AACT 620 630 640 650 660 670 680 690 700 710 720 730 740 750

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